# DLMS Introductory Training

## Module 1 - Introduction to the DLMS

**Introduction to the DLMS**

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[www.dla.mil/does/DLMS](http://www.dla.mil/does/DLMS)
Course Objectives

Students will gain basic understanding of the:

- DLMS purpose, definition, concepts, infrastructure, and policies
- Background and basics of electronic data interchange (EDI)
- The strategy and roadmap to implement the DLMS
- Accredited Standards Committee (ASC) X12 EDI definitions and basic structure
- ASC X12 applied in DOD: the DLMS Implementation Conventions (ICs)
- Emerging technologies/initiatives
- How to prepare and submit proposed DLMS changes

Module 1 Objectives

Students will gain basic understanding of:

- What are the DLMS
- Why they are important
- How they are developed and maintained
- How EDI fits into the DLMS
- What enterprise services support the DLMS
- DLMS concepts & implementation strategy
- The policies governing the DLMS
- Ten Steps to a successful DLMS implementation
DLMS INTRODUCTORY TRAINING
Module 1 - Introduction to the DLMS

Defense Logistics Management Standards

DLMS
DOD's Logistics Support Solution

DLMS Mission & Purpose

Performance Based Logistics
Standard Financial Information
RFID
Strategic Network Optimization
FIAR
Business Enterprise Architecture
Supply Chain Interoperability
Service Oriented Architecture
Information Superiority
BRAC
Best Business Practices
Net-Centric Operations
Process Reengineering
Interoperability of What?

Functional Services Providers

Supply Chains

- Commodity
- International Logistics
- Other Services
- Transport

DLMS Global Services Providers

- DLA Distribution
- DLA Disposition Services
- USTRANSCOM
- International Logistics
- DSCA
- DFAS
- Finance
- Acquisition DCMA
- DAAS
- EBSO
- DLMS

Interoperability Framework

- Business Policy: A required outcome – Property stewardship
- Business Metadata: Characteristics of a data element: Inventory Balance Date = 8 numeric characters (yyyyymmdd)
- Business Process: An assemblage of business rules that collectively form a process. -- Physical Inventory Management
- Business Rule: States what must or must not be done. Storage Activities must report the ending on-hand inventory balance to the item owner for all items having any balance effecting business activity that day.
- Business Object: A collection of data in a specified format that launches a process or reports process results. An order, inventory adjustment, request for payment, etc.
The DLMS Enable Achievement of DOD Goals and Acquisition & Logistics Functional Business Strategy

Better Buying Power and Financial Management Reforms
- Achieve affordable programs
- Control costs throughout the product lifecycle;
- Incentivize productivity and innovation in industry and government;
- Eliminate unproductive processes and bureaucracy;

Goal 2: Strengthen DOD financial management to respond to Warfighter needs and sustain public confidence through auditable financial statements.

Goal 3: “Build agile and secure information capabilities to enhance combat power and decision making while optimizing value.”

Goal 4: Strengthen DOD Acquisition processes, spanning requirements determination, development, procurement, support and disposal to ensure that the Department's force structure and supporting infrastructure is modernized, recapitalized, and sustained within available resources.

In 1962, the DOD established the Military Standard Systems (MILS) to realize the advantages of advancing computer technology and ensure interoperability.

The MILS information exchange format (DLSS) is technically obsolete, unique to DOD and inhibits functional process improvements and process reengineering efforts.

DOD is modernizing business systems which includes replacing the DLSS with the DLMS.

Period of Transition & Transformation

- In 1962, the DOD established the Military Standard Systems (MILS) to realize the advantages of advancing computer technology and ensure interoperability.

- The MILS information exchange format (DLSS) is technically obsolete, unique to DOD and inhibits functional process improvements and process reengineering efforts.

- DOD is modernizing business systems which includes replacing the DLSS with the DLMS.
### What are the DLMS?

- The Defense Logistics Management Standards (DLMS) are a broad base of process rules, data standards and electronic business objects (information exchange forms) designed to meet DOD’s requirements for total logistics support.

  ✓ Developed in collaboration with representatives from the Military Departments, Defense Agencies, and participating Federal Agencies
  ✓ Accommodates the new Enterprise Resource Planning (ERP) system processes and implementation, while supporting legacy system data exchange requirements.

### More about the DLMS:

- Currently consist of three data transmission forms:
  ✓ DLMS EDI Implementation Conventions (IC) that use ASC X12 transaction sets to consolidate the functionality of 500+ MILS transaction formats
  ✓ DLMS XML Schemas – one for each EDI IC
  ✓ Web Services – Funds Verification Processing

- Maintains capability to communicate legacy system information requirements while expanding to support new initiatives such as:
  ✓ Item Unique Identification (IUID)
  ✓ Base Realignment And Closure (BRAC)
  ✓ Passive Radio Frequency Identification (pRFID)
  ✓ Financial Improvement Audit Readiness (FIAR)
Types of DLMS Support

- Supports transitioning from the MILS to the DLMS
  - Replaces all of the MILS transaction formats/associated procedures
  - Examples: MILSTRIP, MILSTRAP, MILSBILLS
- Supports new processes/capabilities not previously associated with a MILS transaction
  - Publishes the transaction format, adds data elements to DLMS Dictionary, and prescribes the business rules/procedures
  - Examples: Warehouse Service Advice/Response, Passive RFID Visibility, Catalog Data Exchange, IUID
- Provides transaction formats for logistics processes that are not administered by EBSO
  - Publishes the transaction format/adds data elements to DLMS Dictionary
  - Provides overview of process/references governing policy/process (no procedural detail)
  - Examples: Stock Readiness (Storage Quality Control Report and Stock Screening), Product Quality Deficiency Report, Weapon Systems Data Change

DLMS Global Services Providers

- Goal: Interoperable infrastructure processes and applications
- Focus: Common support services – translation, business rules, standards, reference repositories, testing, etc.

Enterprise enabling services and infrastructure available to all, providing maximum implementation flexibility
DLMS INTRODUCTORY TRAINING
Module 1 - Introduction to the DLMS

Enterprise Business Standards Office (EBSO)

DOD’s Executive Agent for Logistics Data Interchange

EBSO Purpose/Mission

Business Process Transformation & Interoperability

Facilitate enterprise integration and continuous process improvements to logistics management and operations while maintaining interoperability by:

- Developing business rules that implement DOD policy
- Developing and managing the DOD logistics information exchange infrastructure
- Publishing detailed procedures that identify who does what, when, and how along the DOD logistics chain
DOD Consensus Builder

EBSO administers DOD-wide:
- Defense Logistics Management Standards (DLMS)
- DOD Physical Inventory Control Program
- DLMS Data Management Plan
- Military Standard (MILS)

EBSO chairs:
- DLMS Process Review Committees (PRCs)
- Pipeline Measurement Process Review Committee (PM PRC)
- DOD Supply Discrepancy Reporting Committee
- Joint Physical Inventory Working Group
- DoDAAD / MAPAD Committees

DLMS Process Review Committees (PRC)
- EBSO chairs the following:
  ✓ Supply PRC
  ✓ Finance PRC
  ✓ Pipeline Measurement PRC
  ✓ DoDAAD, MAPAD, SDR, JPIWG & others
- Composed of representatives from the DOD Components, the U.S. Coast Guard, and participating Federal Agencies
- Responsibilities include:
  ✓ Develop and recommend revised policy, procedures, or process improvements
  ✓ Develop, evaluate, and coordinate proposed DLMS changes
  ✓ Help resolve problems, violations, and deviations that arise during system operations
Module 1 - Introduction to the DLMS

DLMS Governance Process

OSD Policy Direction
- DoDD 8190.01E
- DoDI 4140.01
- DoDM 4140.01
- BEA & DISR

Standards Syndication

Systems Development:
- Business Enterprise Architecture (BEA)
- Acquisition & Logistics Functional Strategy & Component Organization Execution Plans
- Supply Chain Executive Steering Committee (SCESC) System/ADC Tracking

Systems Execution:
- DAAS applied syntax & semantic validations

DLMS Process Review Committees

INPUTS
- OMB/OSD Policy Guidance
- Service/Agency Requirements
- DAAS Technical Expertise

OUTPUTS
- Business Rules
- Business Objects
- Meta Data
- Functional Requirements
- Proposed DLMS Changes (PDCs)
- Approved DLMS Changes (ADCs)

DLMS INTRODUCTORY TRAINING
Module 1 - Introduction to the DLMS

EBSO Implementation Support

- Functional and technical consultation
- Providing X12 implementation conventions and XML schemas
- Arranging trading partner meetings/teleconferences
- Testing assistance as required
- Facilitate coordination with DAAS & trading partners
- Modification & configuration management of DLMS
  - Business Rules
  - Transaction formats
  - Metadata
- EBSO web site support
- Providing DLMS Training materials and classes

EBSO Support to Implementers

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<thead>
<tr>
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<tr>
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<td>Web Master</td>
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<td>ESI</td>
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<td>ESI Website Management</td>
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<td>ESI Publications Management</td>
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<td>ESI Records Management</td>
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<td>ESI Cardroom Management</td>
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<td>ESI SDR</td>
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<td>ESI Finance</td>
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<td>ESI DoDAI</td>
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<td>ESI MAPAD</td>
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<td>ESI IUID</td>
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<td>ESI DLMS Data Dictionary</td>
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# Defense Transportation Electronic Business (DTEB) Committee

- Established under authority of DUSD (L&MR)
- Focal point for DOD transportation e-business standards and requirements
- Community of interest:
  - DOD
  - Federal Government
  - Commercial industry
- Chair: USTRANSCOM J-6CDO
Defense Transportation Regulation (DTR 4500.9-R)

- “Prescribes policies and procedures…”
- “Assigns responsibilities for performing traffic management functions…”
- “Prescribes standard data elements, codes, formats, documents, forms, rules, methods, and procedures … for movement of materiel within the Defense Transportation System (DTS).”
- Procedures apply to Military Services, DLA, DCMA, Coast Guard, GSA, USTRANSCOM and its Component Commands, and other activities/agencies using the DTS.
- Seven Parts: Part II - Cargo Movement relevant to Logistics

http://www.ustranscom.mil/dtr/dtrp2.cfm

Defense Automatic Addressing System (DAAS)

(formerly Transaction Services, or Defense Automatic Addressing System Center (DAASC))
**DAAS Mission:**

The Defense Automatic Addressing System (DAAS) mission is to perform as an interoperable gateway for the DOD Components, Government activities, and Foreign Military Sales countries to provide value added services and to deliver logistics data to the appropriate destination, efficiently, expeditiously and accurately.

**DAAS Vision:**

Support the DOD warfighter’s mission by:

- Providing logistics data to the appropriate destination in the proper format the first time and every time.
- Providing global network interoperability.
- Providing value-added services and a central logistics data repository.
- Being proactive in supporting DOD modernization efforts.

**DAAS Support to ERPs and Legacy System Migrations**

- **DAAS infrastructure production and test environment daily functions:**
  - Transaction receipt, edit, translation, archiving, and routing
  - Maintenance of logistics information databases
  - Recurring and special reports and data queries
- **DAAS technical consultation and support for:**
  - Set-up of new accounts, telecom protocols, and data protection schemes
  - Logical data mappings between MILS, DLMS EDI, and DLMS XML
  - Coordination of integration testing with System PMO and trading partners
  - Evaluation of test results and assistance with problem resolution
  - Transaction tracking, archiving, file recovery/resubmission.
  - DAAS Customer Support Desk 365/24/7
- **Authoritative Source of customer related reference databases:**
  - Customer profiles & routing rules
  - DoDAAD, MAPAD, Fund Code, Project Code, RICs, LMARS, etc.
DLMS INTRODUCTORY TRAINING
Module 1 - Introduction to the DLMS

Customers

- DOD (98% of workload)
  - Departments of:
    - Army
    - Navy
    - Air Force
    - Marine Corps
  - Defense Agencies
  - Intelligence
  - DOD Dependent Schools
  - NATO
  - FMS Countries

- Civilian (2% of workload)
  - Departments of:
    - Commerce
    - State
    - Justice
    - Transportation

DAAS Business Services

- DOD (98% of workload)
  - Departments of:
    - Army
    - Navy
    - Air Force
    - Marine Corps
  - Defense Agencies
  - Intelligence
  - DOD Dependent Schools
  - NATO
  - FMS Countries

- Civilian (2% of workload)
  - Departments of:
    - Commerce
    - State
    - Justice
    - Transportation

- NASA
- GSA
- FAA
- VA

- FEMA
- USPS
- GA
- CG
- DOD
- DOD

Suppliers

- Defense Logistics Agency
- Military Services
- General Services Administration
- Commercial Suppliers

DAAS Business Services Offered

- Enterprise Wide Order Fulfillment and Information Processing
- Editing, Validating, Routing & Archiving
- Performance Measurements
- Disparate systems interoperability

Customer Business Transactions:
- MILS
- DLMS (X12 & XML)
- ANSI X12, XML
- UDF and IDoc

Business Transport Methods:
- Websphere MQ
- SFTP
- SMTP
- HTTPS

Volumes

- CY 2016 – 7.5 Billion MILS & EDI
- CY 2015 – 8.0 Billion MILS & EDI
- CY 2014 – 9.0 Billion MILS & EDI
- CY 2013 – 7.4 Billion MILS & EDI
- CY 2012 – 8.3 Billion MILS & EDI
- CY 2011 – 9.0 Billion MILS & EDI
- CY 2010 – 9.6 Billion MILS & EDI
- CY 2009 – 9.7 Billion MILS & EDI
- CY 2008 – 8.4 Billion MILS & EDI

264,917 Business Partners Worldwide

DAAS Support

Functional Support POCs:

- Army/GSA (TransSvcsArmy_GSASupport@sla.mil):
  - Allen Coleman, (937) 656-3708
- Air Force (TransSvcsAirForceSupport@sla.mil):
  - Bernace Collier, (937) 656-3766
- Navy/Marines/Coast Guard (TransSvcsNavy_MarineSupport@sla.mil):
  - Labertha Williams, (937) 656-3712
- DLA (TransSvcsDLASupport@sla.mil):
  - George "Scott" Amburgey, (937) 656-3780

DLMS eBusiness Program Management POCs:

- Gary Wooddell, (937) 656-3830, gary.wooddell@sla.mil

Performance Based Agreement/Memorandum of Agreement:

- Terry Pittman, (937) 656-3413, terry.pittman@sla.mil
- Joan Foy, (937) 656-3781, joan.foy@sla.mil
DAAS Support cont.

Mapping Support POCs:
- Doug Mummert (937) 431-8000  doug.mummert.ctr@dlaimil
- Bill Strickler (937) 431-8000  william.strickler.ctr@dlaimil

Testing POC:
- DLMS - Julie Kampman, (937)656-3841, julie.kampman.ctr@dlaimil
- MILS – Ronald Woolley, (937)656-3567, ronald.woolley.ctr@dlaimil

eBusiness Group (account set-up):
- EDI@dlaimil

Logistics Information Service
(Formerly DLIS)
Logistics Information Service

Mission:

- Create, obtain, and integrate logistics data from a variety of sources for dissemination as user-friendly information to meet or exceed the needs of DOD, Federal and international logisticians
  - Provide cataloging services for 7.5 million active national stock numbered items.
  - Implement cataloging policies, procedures and metrics to monitor performance
  - Deliver state-of-the-art logistics support

*EBSO Cataloging Data Standards Team manages cataloging data and transaction standards.*

- **Enterprise Reference Repositories**
  - Federal Logistics Information System (FLIS)
  - IUID Registry (includes GFP Registry)
  - Master Data Capability (FLIS IUID Indicator)
  - Federal Registration Registry (FedReg)
  - Commercial and Government Entity (CAGE) Registry
Policy and Guidance

DOD Policy and Guidance

- DOD Directive 8190.01E
- DOD Instruction 4140.01
- DOD Manual 4140.01
- DLM 4000.25 series of manuals
- Business Enterprise Architecture (BEA)
DOD Policy and Guidance

DOD Directive 8190.01E,
Defense Logistics Management Standards (DLMS)

The DLMS Policy:

- DLMS is the DOD standard for electronic data interchange among the AISs that comprise assigned business processes of the global supply chain management system.
- The American National Standards Institute (ANSI) Accredited Standards Committee (ASC) X12 (referred to in this directive as ASC X12) is the baseline standard that supports the DLMS transactional information exchanges.

Components are responsible to:

- Uniformly implement the DLMS in all AISs that perform business functions that support the global supply chain management system.
- Use the services of the DLMS global services providers to support the AISs that perform the business functions covered by the DLMS.
DOD Policy and Guidance

DOD Instruction 4140.01
DOD Supply Chain Materiel Management Policy

- Materiel management functions shall be implemented with DOD standard systems

- Authorizes publication of:
  - DoDM 4140.01, “DOD Supply Chain Material Management Procedures”
  - DLM 4000.25 series of manuals:
    - DLM 4000.25 (Defense Logistics Management Standards)
    - DLM 4000.25-1 (MILSTRIP)
    - DLM 4000.25-2 (MILSTRAP)
    - DLM 4000.25-4 (DAAS)
DODM 4140.01, Vol. 8 cont.

- **DOD Components will support and maintain DLMS for all covered functions**
  - DLMS will be the primary system governing logistics functional business management standards and practices
  - DLMS will use ASC X12 EDI transactional interfaces
  - EBSO shall provide configuration management for DLMS
  - MILS will be deactivated upon DOD-wide implementation of DLMS
  - DLMS will be the basis for new, replacement and major modifications to logistics business processes/systems

DODM 4140.01, Vol. 8 cont.

- **DAAS will be:**
  - Designated as the corporate community service provider for DLMS
  - The logistics community’s authoritative repository for end-to-end performance metrics
  - Designated as the source for conversion services (MILS-DLMS)

- **DOD Components will:**
  - Route all MILS/DLMS transactions to DAAS
  - Use DAAS MILS/DLMS conversion services
  - Uniformly implement DLMS
DOD Policy and Guidance

DLM 4000.25
DEFENSE LOGISTICS MANAGEMENT STANDARDS MANUAL

- DLM 4000.25 will subsume DLM 4000.25-1 and 4000.25-2
- Documents the detailed business processes and rules, information exchange formats, data standards and codes
- Developed using the DLMS Process Review Committee (PRC) collaborative model

The DLMS are a Business Transformation Initiative

- DLMS are mandated in the Business Enterprise Architecture (BEA)
Summary

- DOD Directives mandate moving from DoD-unique logistics data exchange standards to the DLMS
- The Defense Logistics Management Standards are a broad base of DOD-approved business rules, standards, objects and processes designed to ensure interoperability
- The strategy to implement DLMS makes use of a managed, phased transformation process with a structured collaboration model
- DAAS ensures global network interoperability during the transition from the MILS to the DLMS
- The DLMS are the new standard for all new or replacement logistics systems, or in major modifications made to existing systems
### Module 1 Quiz

**Question 1:** Two part question:
1) Office responsible for standard business process and transactions standards supporting Supply?
2) Transportation?
   - a) EBSO
   - b) DTEB
   - c) OSD
   - d) Secret Service

**Question 2:** Why does DOD policy mandate the routing of all logistics transactions through DAAS and the use of DAAS conversion services when translations among message formats are required?
   - a) Save money
   - b) Ensure Interoperability
   - c) Provide Pipeline metrics
   - d) Single trading partner
   - e) All of the above
   - f) None of the above

**Question 3:** Which of the following is also called the “DLMS Manual”?
   - a) DOD Directive 8190.01E
   - b) DODM 4140.01
   - c) DLM 4000.25
   - d) Declaration of Independence

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**End of Module 1**